

Model series 167: Cracking noises from the area of the rear axle or a message in the instrument cluster "ESP, ABS failed".

Topic number	LI35.30-P-077843
Version	1
Function group	35.30 - Final drive, drive shafts
Date	5/16/24
Validity	Model series 167, from the production period 10.2021-06.2024
Reason for change	

Complaint

- 1. Cracking noises from the area of the rear axle
- 2. or a message in the instrument cluster "ESP, ABS failed".

Cause

Anti-cracking disk at the external joint of the side shaft at the rear axle is broken.

Attachments	
File	Description
20240216_073757.jpg	Example image of a broken anti-cracking disk
	

Remedy

- Customer complaint due to noises:
- A test drive must be performed. For a precise noise analysis (localization of the noise), make use of the NVH/ PICO. If the joint of the side shaft can be clearly identified as the cause (source of the noise), the following work must be performed:

1.

Remove the side shaft, check the anti-cracking disk, and remove the anti-cracking disk if it is broken,
2.

then process the external joint as per LI35.30-P-058566 and reinstall the side shaft. After the processing is complete, an anti-cracking disk is no longer required.

•

Customer complaint due to display message "ESP, ABS failed" in the instrument cluster:

•

Read out the fault memory; if a rotational speed sensor of the rear axle is stored in the fault memory, the following work must be performed:

1.

Check the rotational speed sensor of the affected side for damage and replace if necessary.

2.

Remove the side shaft, check the anti-cracking disk, and remove the anti-cracking disk if it is broken,

3.

then process the external joint as per LI35.30-P-058566 and reinstall the side shaft. After the processing is complete, an anti-cracking disk is no longer required.

Note:

It is not necessary to replace the side shaft.

Symptoms				
Power transmission > Noises > Throttle lift-off clunking noise				
Power transmission > Drive shaft > Axle shaft > Noises > Knocking/banging				
Chassis/suspension > Brake system > Brakes/traction regulation system > Anti-lock brake system (ABS) > Malfunction				
Chassis/suspension > Brake system > Brakes/traction regulation system > Anti-lock brake system (ABS) > Display message				
Chassis/suspension > Brake system > Brakes/traction regulation system > Electronic Stability Program (ESP) > Malfunction				
Chassis/suspension > Brake system > Brakes/traction regulation system > Electronic Stability Program (ESP) > Display message				
Operation numbers/damage codes				
Op. no.	Operation text	Time	Damage code	Note